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# NOTICE OF ALLOWANCE AND FEE(S) DUE

20374

12/03/2008

KUBOVCIK & KUBOVCIK **SUITE 1105** 1215 SOUTH CLARK STREET ARLINGTON, VA 22202

EXA	MINER		
SMOOT,	SŤEPHEN W		
ART UNIT PAPER NUMBE			
2813			
DATE MAILED: 12/03/20	008		

ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/796,286	03/10/2004	Jason Reid	LAIN-050	9371

TITLE OF INVENTION: METHOD OF FORMING LOW-K DIELECTRICS USING A RAPID CURING PROCESS

• APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# PART B - FEE(S) TRANSMITTAL

# Complète and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

**Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further conditions appropriate appropriate and further conditions appropriate appropr	correspondence includired below or directed others.	ng the Patent, advance or nerwise in Block 1, by (a	rders and notification of ) specifying a new corre	maintenance fees vespondence address:	vill be ma and/or (t	niled to the current of b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fe	e(c) Transmittal Th	s certifica	ate cannot be used for	domestic mailings of the r any other accompanying t or formal drawing, must
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ARLINGTON, V	/A 22202						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORN	IEY DOCKET NO.	CONFIRMATION NO.
10/796,286	03/10/2004	•	Jason Reid	•	L	.AIN-050	9371
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nonprovisional	YES	\$755	\$300	\$0		\$1055	03/03/2009
- EXAMI	INER	ART UNIT	CLASS-SUBCLASS	7			
SMOOT, ST	EPHEN W	2813	438-781000	_			
CFR 1.363).  Change of corresponderess form PTO/SB "Fee Address" indi PTO/SB/47; Rev 03-0. Number is required.  ASSIGNEE NAME AT	ess an assignee is identi n in 37 CFR 3.11. Comp	nge of Correspondence  Indication form ed. Use of a Customer		o 3 registered patentively, gle firm (having as a agent) and the namormeys or agents. If a printed.  //pe) patent. If an assign assignment.	member es of up to no name i	a 2ois 3	cument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	inted on the patent):	Individual 🗆 Co	rporation	or other private grou	ip entity Government
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NOTE: The Issue Fee and	S SMALL ENTITY statu I Publication Fee (if requestroids of the United Sta		b. Applicant is no lost from anyone other than Office.				e assignce or other party in
Authorized Signature	Authorized Signature Date						
Typed or printed name				Registration N	lo		
This collection of information application. Confident submitting the completed his form and/or suggestion and/or suggestion 450, Alexandria, Virginia 233	ntion is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DO 13-1450	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (	on is required to obtain or 1.14. This collection is education defined depending upon the indication office COMPLETED FORMS 1	retain a benefit by t stimated to take 12 i vidual case. Any co eer, U.S. Patent and O THIS ADDRESS	he public minutes to minents o Trademar S. SEND T	which is to file (and o complete, including on the amount of time k Office, U.S. Departo: Commissioner for the com	by the USPTO to process) gathering, preparing, and e you require to complete timent of Commerce, P.O. or Patents, P.O. Box 1450,

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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20374 75	590 12/03/2008		EXAM	INER
KUBOVCIK & F	KUBOVCIK		SMOOT, ST	EPHEN W
SUITE 1105			ART UNIT	PAPER NUMBER
1215 SOUTH CLA ARLINGTON, VA			2813 DATE MAILED: 12/03/2008	3

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 93 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 93 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/796,286	REID ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Stephen W. Smoot	2813		
The MAILING DATE of this communication appearable communication appearable claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subject and MPEP 1308.	e correspondence address application. If not included tion will be mailed in due course. THIS		
1. This communication is responsive to applicant's amendme	nt filed on 28 October 2008.			
2. The allowed claim(s) is/are <u>1-14,16-30,42-45,48-55,58-60,</u>	64-72,82 and 83.			
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	been received. been received in Application No	)		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>				
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") must</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the Company of the paper No./Mail Date</li> <li>DEPOSIT OF and/or INFORMATION about the depo</li> </ol>	on's Patent Drawing Review ( Posteries on the Amendment / Comment or in the drawing should be written on the drawing to 37 CFR 1.1	ne Office action of awings in the front (not the back) of 21(d).		
attached Examiner's comment regarding REQUIREMENT				
Attachment(s)				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5. ☐ Notice of Information</li> <li>6. ☐ Interview Summation</li> </ol>	• •		
	Paper No./Mail	Date		
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7.   Examiner's Ame	ndment/Comment		
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>		<ul><li>8.</li></ul>		
/Stephen W Smoot/	J			
Primary Examiner Art Unit 2813				

### **DETAILED ACTION**

This Office action is in response to applicant's amendment filed on 28 October 2008.

### Election/Restrictions

1. Claim 1 is allowable. Claims 2-14, 16-30, 42-45, 48-55, 58-60, 64-72, 82-83, previously withdrawn from consideration as a result of a restriction requirement, require all the limitations of claim 1. Pursuant to the procedures set forth in MPEP § 821.04(a). the restriction requirement among species, as set forth in the Office action mailed on 11 April 2006, is hereby withdrawn and claims 2-14, 16-30, 42-45, 48-55, 58-60, 64-72, 82-83 are hereby rejoined and fully examined for patentability under 37 CFR 1.104. In view of the withdrawal of the restriction requirement, applicants are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Application/Control Number: 10/796,286

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Allowable Subject Matter

Page 3

2. Claims 1-14, 16-30, 42-45, 48-55, 58-60, 64-72, 82-83 are allowed.

3. The following is an examiner's statement of reasons for allowance: Claims 1-14,

16-30, 42-45, 48-55, 58-60, 64-72, 82-83 are allowed because the prior art of record

does not teach or suggest, in combination with the other claim limitations, a method of

forming a low dielectric constant structure that includes curing a dielectric material at an

average rate of at least 1 degree C per second, wherein the dielectric material is an

organosiloxane polymeric material selected from the group as claimed in claim 1, and

wherein the dielectric material is formed from a precursor having the composition as

claimed in claim 1.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Stephen W. Smoot whose telephone number is 571-

Art Unit: 2813

272-1698. The examiner can normally be reached on Monday to Friday from 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen W Smoot/ Primary Examiner Art Unit 2813

sws